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(54) Title: **BENZONAPHTHYRIDINES WITH PDE 3/4 INHIBITING ACTIVITY**

(57) Abstract: Compounds of a certain formula (1), in which R1, R2, R3, R4 and R5 have the meanings indicated in the description, are novel effective PDE4 or PDE3/4 inhibitors.

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## INTERNATIONAL SEARCH REPORT

International Application No  
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## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D471/04 A61K31/47 A61P11/08

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BEILSTEIN Data, CHEM ABS Data, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 98 21208 A (BYK GULDEN LOMBERG CHEM FAB ;FLOCKERZI DIETER (DE)) 22 May 1998 (1998-05-22) cited in the application claim 1 ---	1-16
Y	WO 99 57118 A (BYK GULDEN LOMBERG CHEM FAB ;FLOCKERZI DIETER (DE)) 11 November 1999 (1999-11-11) cited in the application claim 1 ---	1-16
Y	EP 1 270 577 A (TAKEDA CHEMICAL INDUSTRIES LTD) 2 January 2003 (2003-01-02) see compound 150, page 157 ---	1-16
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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